

**SECTION 1.**  
**H. D. Cooke Elementary School**  
**Capital Improvement Project (CIP)**  
**Window Removal & Replacement**  
**February 29, 2000 Revised March 10, 2000**

---

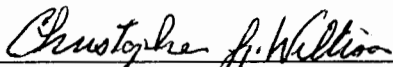
**CIP SCOPE OF WORK (SOW):**

Boggs Environmental Consultants (BEC) was briefed by Mr. John J. Pawlus, Design Team Leader, of the US Army Corp of Engineers -Baltimore District, regarding the scheduled Window Replacement to determine the SOW locations and identify potential asbestos-containing materials disturbance activity at H. D. Cooke Elementary School, 2525 17<sup>th</sup> Street, Washington, District of Columbia. The SOW requires controlled demolition (removal) of windows and associated structures (sash, sill, and framing) and installation of replacement windows. Additionally, repair work shall be conducted as required for those adjacent surfaces damaged during performance of the SOW.

**CIP SOW- ASBESTOS IMPACT SUMMARY:**

BEC conducted an inspection of the proposed work area for the presence of asbestos-containing materials. BEC has determined asbestos-containing materials (ACM) are present in the work area. BEC notes that there are several instances where pipe runs lie in front of the windows and may be disturbed, however in room 100 the pipe runs lie directly in front of the windows and will be disturbed. BEC also notes that the windows meet the drop ceiling in room 213 and that one tile will be directly affected by the SOW. The asbestos-containing materials are 2x4 white ceiling tile, 3"-6" O.D. gray pipe insulation, and 3"-4" O.D. Cementitious Fittings, 3"-6" O.D. white Thermal System Insulation.

This report has been written by:



Christopher L. Wiltison

US EPA AHERA Inspector

Certification Number 045462 Expires 17 December 2000

## SECTION 2.0

TABLE 1

## H. D. COOKE ELEMENTARY SCHOOL

Homogeneous Areas		Location	Asbestos Content by (%)	Condition
Number	Description			
EA 03	Plaster, White	Throughout school	NAD	Good, intact
EA 703	Brown Coat Associated with HA 03	Throughout school	NAD	Good, intact
EA 08	2'x4' Ceiling tile, white, with pinholes, dots, & gouges	Second and third floor halls of new wing, and room 214	NAD	Good, intact
EA 09	2'x4' Ceiling tile, white, with dots (constellation pattern)	Second and third floor halls and library of new wing, and rooms 213 & 214	7	Good, intact
EA 10 and EA 46	2'x4' Ceiling tile, white, with pinholes, dots, and wormy track (pattern)	Second and third floor halls of new wing, second floor library (new wing) and rooms 213 & 313	NAD	Good, intact
EA 41	Pipe insulation, gray, 3"-6" O. D., Block	Throughout first and second floors	60	Good, intact
EA 49	Cementitious fitting, gray, 3"-4" O. D.	Throughout first and second floors	40	Good, intact
BEC 01	Thermal System Insulation, white, 3"-6" O. D.	Throughout school	40	Good, intact

NAD

No Asbestos Detected

Homogeneous Areas (HA) #

BEC XX

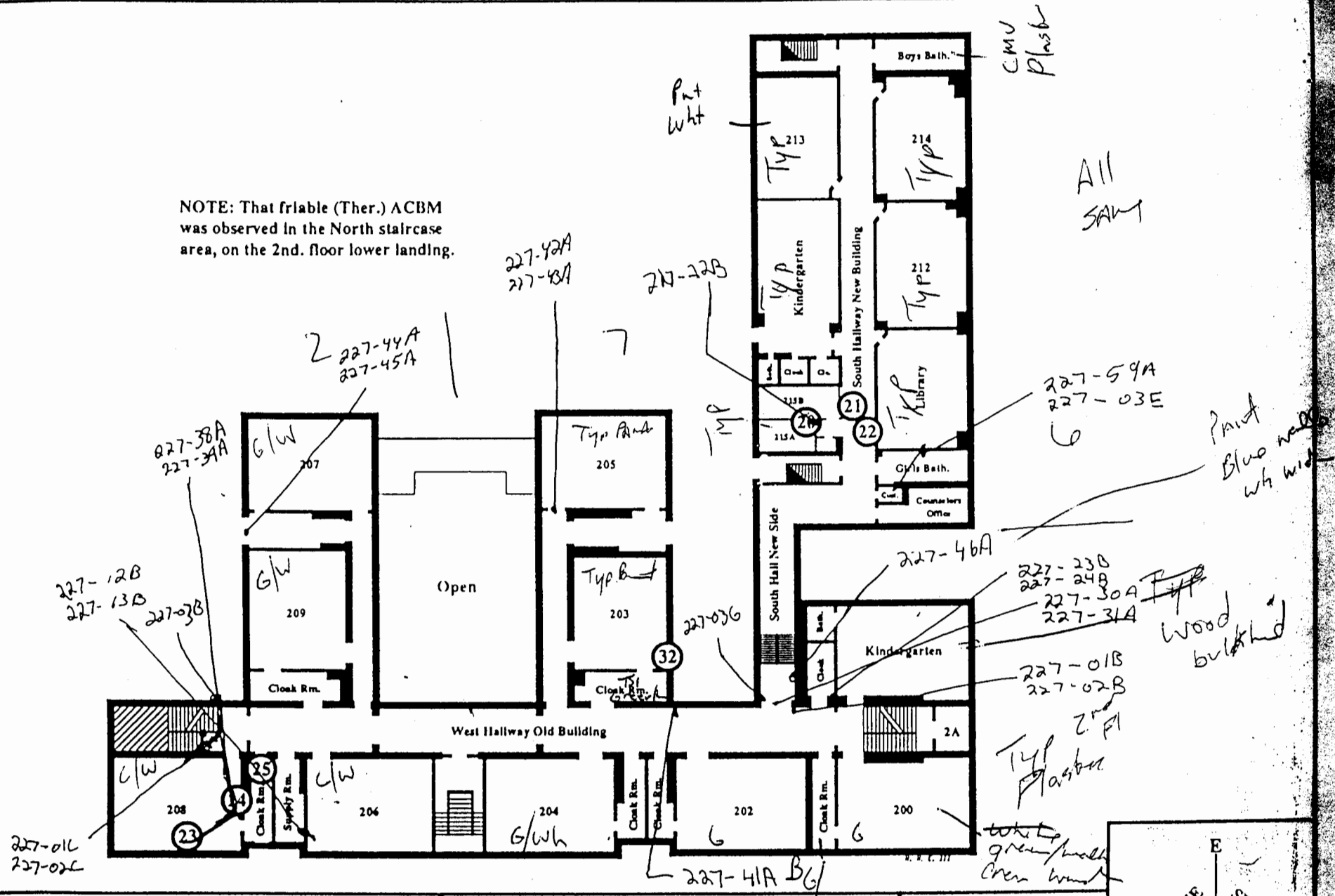
Denotes HA assigned by BEC via onsite survey and asbestos bulk sample collection/analysis

EA XX

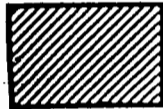
Denotes HA assigned by EA via onsite survey and asbestos bulk sample collection/analysis

**ATTACHMENT #1**  
**H. D. COOKE ELEMENTARY SCHOOL**  
**FLOOR PLANS**

NOTE: That friable (Ther.) ACBM was observed in the North staircase area, on the 2nd. floor lower landing.



# FRIABLE ACBM



Thermal



Surfacing



Miscellaneous



All 3 Types

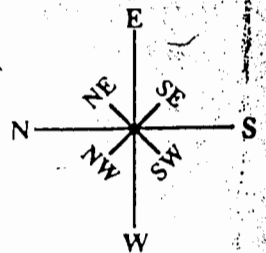
SCHOOL: H.D. COOKE ELEM. SCHOOL

FLOOR: 2nd. Floor

OTHER: ANY OTHER NOTES

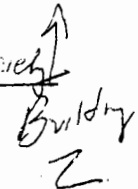
DRAWING: (B)

NOTE: That all sampling locations have been circled and numbered according to the the sample number. EXAMPLE: B-007-01 is labeled as (01)



Exterior all white

7-13A  
New  
Sector  
all  
brown w/  
w/cream



### All 3 Types

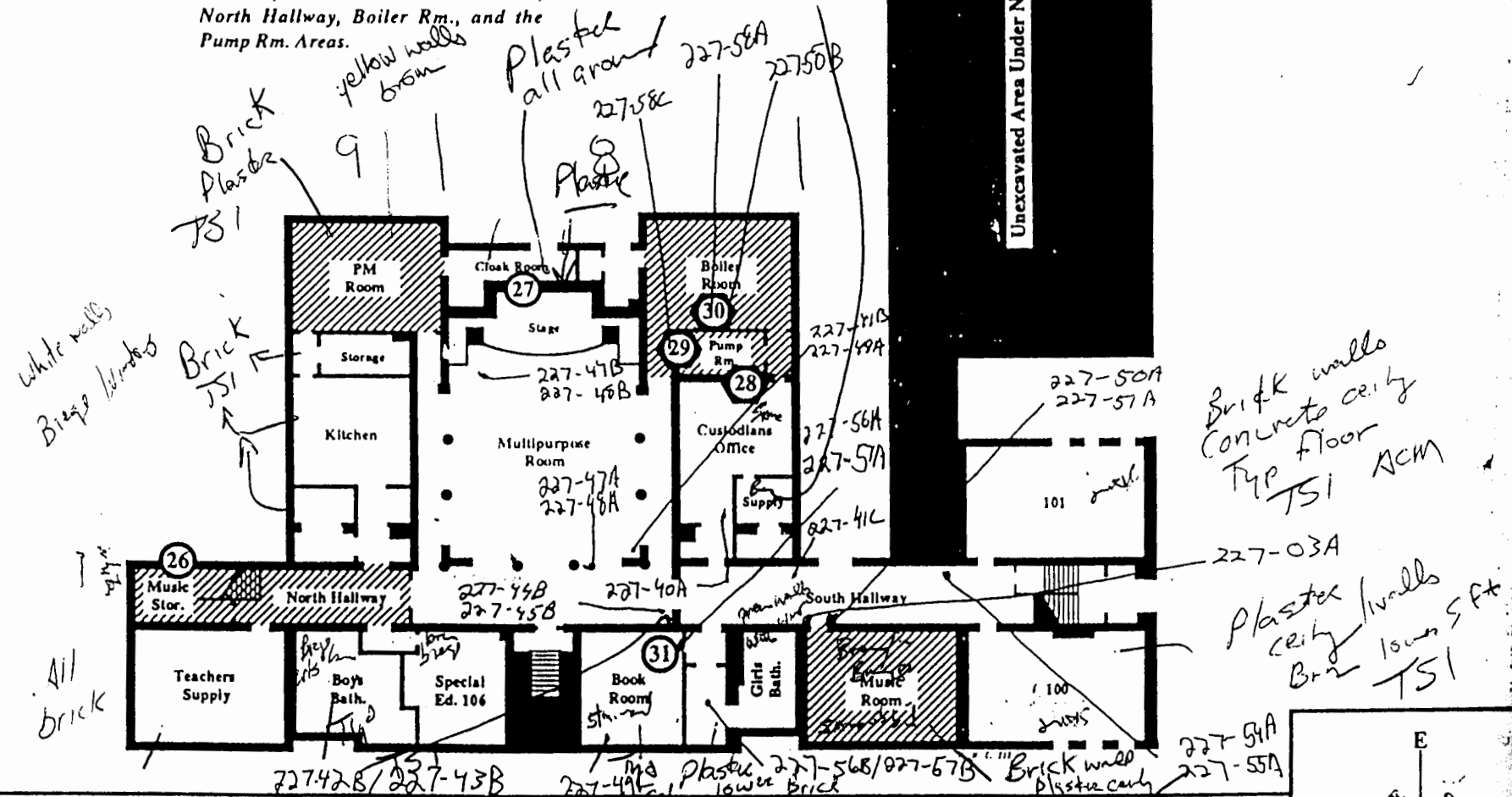
21

TS1  
all floor

Brick w/  
concrete  
ceiling

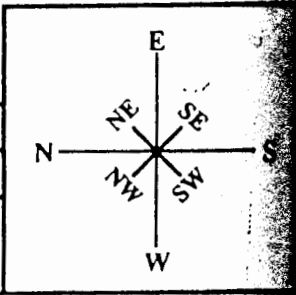
NOTE: That friable (Ther.) ACBM  
was observed in the following locations  
PE Rm., Music Stor. & Music Rm.,  
North Hallway, Boiler Rm., and the  
Pump Rm. Areas.

Unexcavated



FRIABLE ACBM			
Thermal	Surfacing	Miscellaneous	All 3 Types

SCHOOL:	H.D. COOKE ELEM. SCHOOL	FLOOR:	1st. Floor
OTHER:	ANY OTHER NOTES		
DRAWING: (C)			
NOTE: That all sampling locations have been circled and numbered according to the sample number. EXAMPLE: B-007-01 is labeled as (01)			



Boggs Environmental Consultants

Office (301) 694-5687  
Fax (301) 694-9799

Office (304) 292-1095  
Fax (304) 292-2320

Inspector: Chris Wiltison  
 Certification #: 045462  
 School Name: HD Cooke  
 Date: 2/1/2000

Project ID: DC99031  
Project Reference: Window Rep  
School Address:

# NESHAP INSPECTION FORM

Homogeneous Areas		Location	Asbestos Content by (%)	Condition
Number	Description			
213	CMU walls ACM Pipe Ceily Tile TSI elbows on ACM Above all classrooms heaty lines			
212	Typical Metal sills on CMU			
211	Kindergarte Typical Library Typical stairwell plaster CMU Counselor same			
<del>Bldg I</del> Typical				
April '99				

Boggs Environmental Consultants

369 High Street  
Morgantown, West Virginia 26505

Office (304) 292-1095  
Fax (304) 292-2320

CLIENT: H.D. Cooke-2007

PROJECT ADDRESS: 2525 17<sup>th</sup> Street

BEC PROJECT ID: DCRS - Window Replacement

[illegible]



BEC

Boggs Environmental Consultants

301 West Patrick Street  
Frederick, Maryland 21701Office (301) 694-5687  
Fax (301) 694-9799369 High Street  
Morgantown, West Virginia 26505Office (304) 292-1095  
Fax (304) 292-2320

Inspector: Chris Wiltison

Project ID:

DC99031

Certification #: 045462

Project Reference:

Window ReplacementSchool Name: HD Cooke

School Address:

Date:

1048 Hrs 2/1/2000Mr. Lawrence

## NESHAP INSPECTION FORM

Homogeneous Areas		Location	Asbestos Content by (%)	Condition
Number	Description			
	Lead paint survey completed all paint interior & exterior according to Mr Lawrence			
	Main office up & down windows 3' off fl			
	Room 309 plaster walls above wood sill int. concrete ext. grid ceiling 12x12 FT			
	307 Typical Health Suite typ			
	300 Typical frame but windows pull out			
	302 Typ			
	Counselor's room			
	Building 2 3rd Floor			
	Halls metal frame NO TSI Drop ceiling to top of walls			
	CMU frame all around ceramic			
	CMU all classrooms w/ drop ceiling			
	CMU offices plaster ceiling			
	All thruvert 313 typ			

3 type ceiling tile 2 NAO 1 Big hole little hot ACM

Boggs Environmental Consultants

Office (301) 694-5687  
Fax (301) 694-9799

Office (304) 292-1095  
Fax (304) 292-2320

Date: 2/28/2000

[illegible]

[illegible]

# EMSL Analytical, Inc.

10766 Rhode Island Ave

Beltsville, MD 20705

Phone: (301) 937-5700

Fax: (301) 937-5701

EMSL

Attn: Mark Boggs

Boggs Environmental Consulting, Inc.

301 West Patrick Street

Frederick, MD 21701

Friday, February 04, 2000

Ref Number: MD00334

## POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

Project: HD Cooke Window Replacement

Sample	Location	Appearance	Sample Treatment	ASBESTOS		NON-ASBESTOS	
				%	Type	%	Fibrous % Non-Fibrous
BULK 01	rm. 100	White Fibrous Homogeneous	Teased	35%	Chrysotile		65% Other
BULK 02	rm. 100	White Fibrous Homogeneous	Teased	40%	Chrysotile		60% Other
BULK 03	1st floor hall	White Fibrous Homogeneous	Teased	35%	Chrysotile		65% Other

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.

\* NY samples analyzed by ELAP 198.1 Method.

*B. J. Macey*

Brett Macey  
Analyst

Approved  
Signatory

Disclaimer: PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

**SECTION 1.0**  
**H.D. Cooke Elementary School**  
**Capital Improvement Project (CIP)**  
**Window Replacement**  
**February 29, 2000/ Revised March 10, 2000**

---

**CIP SCOPE OF WORK (SOW):**

Boggs Environmental Consultants (BEC) was briefed by Mr. John J. Pawlus, Design Team Leader, of the US Army Corps of Engineers - Baltimore District regarding the scheduled Window Replacement to determine the SOW location and identify potential lead based paint finished building components disturbance activity and work area locations at 2525 17<sup>th</sup>, NW, Washington, District of Columbia. The Windows Replacement SOW requires controlled demolition (removal) of windows and associated structures (sash, sill, and framing) and installation of replacement windows. Additionally, repair work shall be conducted as required for those adjacent surfaces damaged during performance of the SOW.

**CIP SOW- LEAD IMPACT SUMMARY:**

BEC conducted an inspection of the proposed work areas for the presence of lead-based paint finished building components. Lead based paint has been positively identified in the CIP SOW area. At the time of inspection, lead based paint films were intact and in good condition. The planned SOW shall result in contact/disturbance of lead-based paint films on the white painted surfaces typical of the white paint on the interior sill and sash in the supply room next to the health suite (PC 01 & 02), white exterior surfaces typical to the exterior window sill in the third floor stairway (PC 04), the light blue painted surfaces typical to the wall in room 201 (PC 11). All other paint chip samples collected, tested below the Federal lead guidelines for lead paint chips.

This report has been written by:

  
Mark A. Boggs, Principal

District of Columbia Lead Poisoning Prevention Division Licenses-

Business Entity License Number	DC99-179	Expires 28 Aug 2000
Risk Assessor License Number	DC99-180	Expires 25 May 2001
Project Designer License Number	DC99-181	Expires 29 July 2001

---

The inspection was performed in accordance with US Department of Housing and Urban Development "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing", June 1995 (rev. 1997) and District of Columbia work practice standards for conducting lead - based paint activities "The Lead-Based Paint Abatement and Control Act" (D.C. Law 11-221, Jan 98).

**SECTION 2.0**  
**TABLE 1 Paint Chip Sample Results**  
**HD COOKE ELEMENTARY SCHOOL**  
**March 10, 2000**

Paint Sample		Location of Sample	Lead by Weight (%)	Building Component	Condition
Number	Description				
01	White	Supply Room next to Health Suite	0.49	Sill	Fair
02	White	Supply Room next to Health Suite	0.5151	Sash	Fair
03	Green	Supply Room next to Health Suite	0.1593	Wall	Fair
04	White	Third Floor Stairway	8.9585	Exterior Sill	Fair
05	Brown	Health Suite	0.0957	Sill	Fair
06	Yellow	Health Suite	0.0815	Wall	Fair
07	Off-White	Health Suite Bathroom	0.1431	Wall	Fair
08	Blue-Green	Room 300	0.2493	Sill	Fair
09	Tan	3 <sup>rd</sup> floor new addition hallway	0.3017	Sill	Fair
10	Beige	3 <sup>rd</sup> floor new addition hallway	0.0978	Wall	Fair
11	Light Blue	Room 201	6.2843	Wall	Fair

BEC

Boggs Environmental Consultants

301 West Patrick Street  
Frederick, Maryland 21701369 High Street  
Morgantown, West Virginia 26505Office (301) 694-5687  
Fax (301) 694-9799Office (304) 292-1095  
Fax (304) 292-2320RISK ASSESSOR: M. Boggs PROPERTY OWNER: H.D. Cooke ES-

CERTIFICATION #: \_\_\_\_\_ PROJECT ADDRESS: \_\_\_\_\_

DATE: 02-01-00 BEC PROJECT ID: DCPS - Window Replacement

## PAINT CHIP SAMPLING LOG

Sample Number	Room #/Name	Color Description	Building Component
PC-01	Supply Rm next to Health Suite	White 1"x1"	SL/sill
PC-02	" "	White 1"x1"	Sash/
PC-03	" "	Green 2"x2"	WL/Wall
PC-04	3rd Floor Stairway	White 2"x2" exterior window, SL	exterior SL
PC-05	Health Suite	Brown 1"x1"	SL
PC-06	" "	Yellow 1"x1"	WL
PC-07	Health Suite Bathroom	Off-White 1"x1"	WL
PC-08	Rm 300	Blue/green 1"x1"	SL
PC-09	3rd Floor new edition Hallway	TAN 1"x1"	SL
PC-10	" "	Biege 1"x1"	WL
PC-11	Rm 201	Light Blue 1"x1"	WL
<del>PC-12</del>	E2 02-01-00		
<del>PC-13</del>	E2 02-01-00		
<del>PC-14</del>	E2 02-01-00		



# METS

Page: 1 of 2**LABORATORIES**

179 Smallwood Village Center, Waldorf, Maryland 20602

Metro: 301/870-1995 Toll Free: 800/604-1995 Fax#: 301/870-1701

Submitting Co.: Boggs Environmental Consultants Acct. No. 11-06-11Co. Address: 301 W. Patrick St. Frederick MD 21701Phone # (301) 694-5687 Fax # 301-694-9799

Project ID/Address: <u>H.D. Cooke</u> <u>Window Replacement</u> Comments: _____ <input type="checkbox"/> Ready Wipe <input type="checkbox"/> Pre-Paid Samples METS Log #:        --        --		<b>✓ Matrix / Sample Type</b> <input type="checkbox"/> Single Dust Wipe <input checked="" type="checkbox"/> Paint Chip <input type="checkbox"/> Air <input type="checkbox"/> Drinking Water <input type="checkbox"/> Waste Water <input type="checkbox"/> Soil <input type="checkbox"/> Other: _____		<b>✓ Lead &amp; Asbestos</b> <input checked="" type="checkbox"/> EPA SW846-7420, FLAA Dust Wipes, Paint Chips, Soil & Air <input type="checkbox"/> TCLP-Pb EPA SW846-1311 <input type="checkbox"/> Asbestos: PCM/Air (NIOSH 7400) <input type="checkbox"/> Asbestos: PLM/ Bulk (EPA 600/ R-93/116)		<b>✓ Drinking Water Analysis</b> <input type="checkbox"/> Total Coliform Bacteria <input type="checkbox"/> Chem1: Nitrate, Nitrite, Iron, & Turbidity <input type="checkbox"/> Lead Water-GFAA <input type="checkbox"/> Other: _____ <input type="checkbox"/> Field pH: _____ <input type="checkbox"/> Field Chlorine: _____ ppm		<b>✓ Turn Around Time</b> <input type="checkbox"/> Same Day: 8 hrs. <input type="checkbox"/> 24 hrs. <input type="checkbox"/> 48 hrs. <input checked="" type="checkbox"/> 72 hrs. <input type="checkbox"/> 1 week <input type="checkbox"/> 2 weeks <input type="checkbox"/> Weekend <input type="checkbox"/> Other: _____	
---	--	---	--	--	--	---	--	---	--

Mets No.	Sample ID / Bottle #	Collection Location	Date Collected	Drinking H <sub>2</sub> O Time Collected	Surface Type FL,WW,SL	Dust Wipe Area Inches	Paint Chip Area cm or in	Air Volume Liters	Other Analysis	Lab Use Only
1.	PC-01	Supply Rm <sup>next to Health Suite</sup>	02-01-00	AM PM	SL		1 x 1 <sup>cm</sup> (in)	L		
2.	PC-02	↓		AM PM	Sash		1 x 1 <sup>cm</sup> (in)	L		
3.	PC-03	↓		AM PM	WL		2 x 2 <sup>cm</sup> (in)	L		
4.	PC-04	3rd floor stairway		AM PM	exterior SL		2 x 2 <sup>cm</sup> (in)	L		
5.	PC-05	Health Suite		AM PM	SL		1 x 1 <sup>cm</sup> (in)	L		
6.	PC-06	" "		AM PM	WL		1 x 1 <sup>cm</sup> (in)	L		
7.	PC-07	Health Suite Bathroom		AM PM	WL		1 x 1 <sup>cm</sup> (in)	L		
8.	PC-08	Rm 300		AM PM	SL		1 x 1 <sup>cm</sup> (in)	L		
9.	PC-09	3rd Floor New Edition Hallway		AM PM	SL		1 x 1 <sup>cm</sup> (in)	L		
10.	PC-10	" "		AM PM	WL		1 x 1 <sup>cm</sup> (in)	L		

Collector/ Relinquished by: <u>Mark Boggs</u>		Certification # <u>3857</u>	Date <u>02-01-00</u>	Time <u>5:30pm</u>	For Lab Use Only	
Report Date: <u>1/1/00</u> Time: <u>AM/PM</u>		<input type="checkbox"/> Passed (Coliform Absent), <input type="checkbox"/> Failed (Coliform Present), <input type="checkbox"/> Failed (E. Coli Present)				
Received by: _____		Date _____	Time _____	<input type="checkbox"/> Nitrate= _____ ppm Date: <u>1/1/00</u> Iron= _____ ppm Date: <u>1/1/00</u> <input type="checkbox"/> Turbid= _____ ppm Date: <u>1/1/00</u> Lead= _____ ppb Date: <u>1/1/00</u> <input type="checkbox"/> Nitrite= _____ ppm Date: <u>1/1/00</u> N/N= _____ ppm Date: <u>1/1/00</u>		

White - Final Report

Yellow - Lab Copy

Pink - Customer Copy





# METS

**LABORATORIES**

179 Smallwood Village Center, Waldorf, Maryland 20602

Metro: 301/870-1995 Toll Free: 800/604-1995 Fax#: 301/870-1701

 Page: 2 of 2

 Submitting Co.: BEC

 Acct. No. 11-06-11

 Co. Address: 301 W. Patrick Frederick MD 21701

 Phone # 301-694-5687 Fax # 301-694-9799

Project ID/Address: <u>H.D. Cooke</u> <u>Window Replacement</u> Comments: _____ <input type="checkbox"/> Ready Wipe <input type="checkbox"/> Pre-Paid Samples METS Log #:        --        --			<input checked="" type="checkbox"/> Matrix / Sample Type <input type="checkbox"/> Single Dust Wipe <input checked="" type="checkbox"/> Paint Chip <input type="checkbox"/> Air <input type="checkbox"/> Drinking Water <input type="checkbox"/> Waste Water <input type="checkbox"/> Soil <input type="checkbox"/> Other: _____		<input checked="" type="checkbox"/> Lead & Asbestos <input checked="" type="checkbox"/> EPA SW846-7420, FLAA Dust Wipes, Paint Chips, Soil & Air <input type="checkbox"/> TCLP-Pb EPA SW846-1311 <input type="checkbox"/> Asbestos: PCM/Air (NIOSH 7400) <input type="checkbox"/> Asbestos: PLM/ Bulk (EPA 600/ R-93/116)		<input checked="" type="checkbox"/> Drinking Water Analysis <input type="checkbox"/> Total Coliform Bacteria <input type="checkbox"/> Chem I: Nitrate, Nitrite, Iron, & Turbidity <input type="checkbox"/> Lead Water-GFAA <input type="checkbox"/> Other: _____ <input type="checkbox"/> Field pH: _____ <input type="checkbox"/> Field Chlorine: _____ ppm		<input checked="" type="checkbox"/> Turn Around Time <input type="checkbox"/> Same Day: 8 hrs. <input type="checkbox"/> 24 hrs. <input type="checkbox"/> 48 hrs. <input checked="" type="checkbox"/> 72 hrs. <input type="checkbox"/> 1 week <input type="checkbox"/> 2 weeks <input type="checkbox"/> Weekend <input type="checkbox"/> Other: _____	
---	--	--	--	--	---	--	---	--	--	--

Mets No.	Sample ID / Bottle #	Collection Location	Date Collected	Drinking H <sub>2</sub> O Time Collected	Surface Type FL,WW,SL	Dust Wipe Area Inches	Paint Chip Area cm or (in)	Air Volume Liters	Other Analysis	Lab Use Only
1.	PC-11	Rm 201	02-01-00	AM PM	WL		1 x 1 (in) cm	L		
2.				AM PM			x in cm	L		
3.				AM PM			x in cm	L		
4.				AM PM			x in cm	L		
5.				AM PM			x in cm	L		
6.				AM PM			x in cm	L		
7.				AM PM			x in cm	L		
8.				AM PM			x in cm	L		
9.				AM PM			x in cm	L		
0.				AM PM			x in cm	L		

Collector/ Relinquished by: <u>Mark Bagg</u>		Certification # <u>3857</u>	Date <u>02-01-00</u>	Time <u>5:30pm</u>	For Lab Use Only	
Received by: _____		Date _____	Time _____	Report Date: <u>  /  /  </u> Time: <u>  AM/PM  </u> <input type="checkbox"/> Passed (Coliform Absent), <input type="checkbox"/> Failed (Coliform Present), <input type="checkbox"/> Failed (E. Coli Present) <input type="checkbox"/> Nitrate= _____ ppm Date: <u>  /  /  </u> Iron= _____ ppm Date: <u>  /  /  </u> <input type="checkbox"/> Turbid= _____ ppm Date: <u>  /  /  </u> Lead= _____ ppb Date: <u>  /  /  </u> <input type="checkbox"/> Nitrite= _____ ppm Date: <u>  /  /  </u> N/N= _____ ppm Date: <u>  /  /  </u>		

White - Final Report

Yellow - Lab Copy

Pink - Customer Copy